WATER QUALITY MEMORANDUM

4034 &

Utah Coal Regulatory Program

September 27, 2012

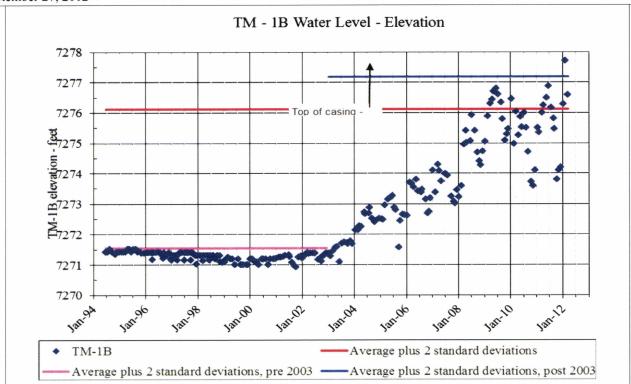
TO:	Internal File				
THRU:	Steve Christensen, Permit Supervisor				
FROM:	Steve Christensen, Permit Supervisor Skel Ken Hoffman, Hydrologist K W				
RE:	First Quarter of 2012 Water Monitoring, PacifiCorp, Task ID #4034	Trail Mounta	in Mine, C/015/0009,		
The Trail Mountain Mine is currently idle. The monitoring plan is described in Appendix A of Volume 9 of the MRP.					
1. Were data submitted for all of the MRP required sites?					
The Oliphant portal discharge (18-1-1 or T-18) is monitored as a spring. The MRP identifies 18-3-1 (T-19) as a stream monitoring point but the Permittee reports it as a spring.					
In-mine		YES 🖂	NO 🗌		
The mine is sealed, so there is no monitoring of underground or in-mine water.					
Springs		YES 🖂	NO 🗌		
The Oliphant portal discharge (18-1-1 or T-18) is monitored quarterly. Mine discharge has not occurred since December of 2001. The Permittee monitors springs 17-35-2, 17-35-1, 17-26-5, 17-25-1, 17-26-4, 17-22-1, 17-21-1, and 18-2-1 for operational parameters in July and October and for flow only in August and September. The Permittee monitors spring 18-3-1 (T-19) in Straight Canyon for operational parameters in March, June, September, and December and for flow only the remaining months of the year.					
Streams		YES 🗆	NO 🗆		
The Pe	ermittee monitors SW-1, SW-2 and SW-3 in Cottonwo	ood Canyon fo	or flow only during the		

first two months of each quarter and for operational parameters during the last month of each quarter.

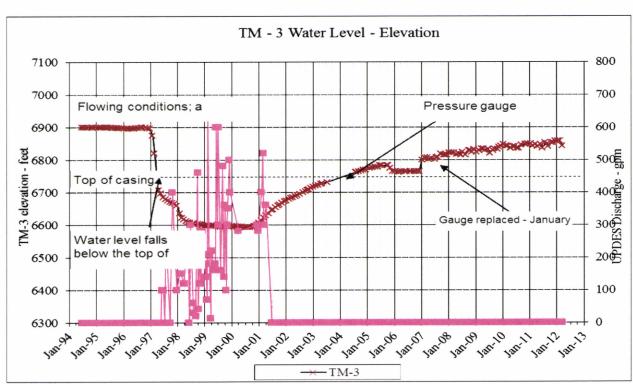
Page 2 C/015/0009-WQ12-1 Task ID #4034 September 27, 2012		
UPDES	YES	NO 🗌
There was no reported discharge from eit The mine was sealed in June 2001 and there has (the mine-water discharge into Cottonwood Cree	been no reported discharge a	
Wells	YES 🖂	NO 🗌
Since July 2004, the water level in TM-3 has determined from pressure measured by a gauge on t monitored for water level monthly and for operation	he sealed wellhead (see char	t below). TM-1B is
2. Were all required parameters reported for each	ch site?	
Springs	YES 🖂	NO 🗌
Streams	YES 🖂	NO 🗌
UPDES	YES 🖂	NO 🗌
Wells	YES 🖂	NO 🗌
3. Were any irregularities found in the data?		
Listed parameters were outside two standard	l deviations.	
Springs 18-3-1 March 2012 - flow	YES 🔀	NO 🗌
Streams	YES 🖂	NO 🗌
SW-1 March 2012 total alkalinity SW-3 March 2012 field conductivity, chloric	le	
UPDES No discharge.	YES	№ 🖂
Wells	YES 🖂	NO 🗌

TM-1B March 2012 field pH (meter error), depth, total cations, cation-anion balance

The head in TM-1B began slowly rising in early 2003. The cause is not evident. Although highly variable from quarter to quarter, the water level now peaking again (the elevation was highest in June 2011). Depth was outside two standard deviations (post 2003 standard deviation) of the mean during February 2012. This water level will be continued to be tracked in the Second Quarter of 2012.



TM-3: water elevation peaked in June 2005, remained steady through October, dropped 18.5 ft in November and December 2005 and remained virtually unchanged during 2006. The pressure gauge was replaced in January 2007 and values jumped to approximately match the pre-2006 curve. During the first half of 2007, the curve was relatively flat, but it resumed climbing during the third quarter and has recently ceased an upward trend.



C/O	ge 4 015/0009-WQ12-1 kk ID #4034 ptember 27, 2012					
4.	On what date does the MRP require a	ı five-year resamplin	g of baseline	water data.		
	The next renewal will be on 02/2 2011. Analyses for baseline parameters	•	-	-		
5. Based on your review, what further actions, if any, do you recommend?						
	There is no further action recomme	nded at this time.				
6.	6. Does the Mine Operator need to submit more information to fulfill this quarter's monit					
	requirements?	YES □	NO 🖂			
7.	Follow-up from last quarter, if necess	sary.		NA ⊠		
8.	Did the Mine Operator respond adequately to queries about missing or irregular data?					
		YES \boxtimes	NO 🗆	NA 🗌		

O:\015009.TMT\Water Quality\kh4034.doc